Practice: 638 - Water & Sediment Control Basin

Scenario # 1 WASCOB

Scenario Description: **Missouri**

Typical scenario for the construction of an earthen embankment or the rebuild of an existing WASCOB. Rebuild work includes the removal of accumulated sediment from the pool area to restore original capacity. Outlet is typically an underground outlet. An earthen embankment or combination ridge and channel generally constructed/rebuilt across the slope and minor watercourses to form a sediment trap and water detention basin. Work is done with dozer, scraper, or road grader. Costs include all equipment necessary to excavate, shape, grade and compact the Water and Sediment Control Basin and mobilization of equipment. Seeding not included. This practice is utilized to reduce watercourse and gully erosion, trap sediment, reduce and manage onsite and downstream runoff. Sheet and rill erosion will be controlled by other conservation practices.

Before Practice Situation:

Farming fields with excessive slope length has resulted in multiple rills and/or ephemeral gullies that will continue to worsen over time. The excessive erosion may lead to deterioration of receiving waters due to excessive sedimentation and nutrient transport. Resource concerns addressed include soil erosion and water quality by trapping sediment and/or reducing erosion in a field to protect riparian areas and water bodies from sediment deposition. Surface water causes erosion and the sediment (and potentially pesticides) to be transported into the riparian areas and water bodies downstream.

After Practice Situation:

Water and Sediment Control Basin is constructed or rebuilt by the excavation/earthfill with dozer, scraper and/or road grader. Rill and/or gully erosion is reduced. If riser and underground outlet are needed, then include Underground Outlet (620). Include Critical Area Planting (342) where necessary to prevent erosion following construction activities.

Scenario Feature Measure:

CY of WASCOB Embankment

Scenario Typical Size:	700	Cubic Yard	Tot Unit Cost	$2.71

Cost Category	Component Name	Quantity	Unit	Unit Cost	Cost
Equip./Install.	Excavation, common earth, small equipment,	700	Cubic Yard	$2.37	$1,659.00
Labor	Supervisor or Manager	1	Hour	$37.21	$37.21
Mobilization	Mobilization, medium equipment	1	Each	$200.43	$200.43
				Total Cost:	$1,896.64

Payment types:

PayType	Unit Payment	PayType	Unit Payment
EQIP	$2.03	EQIP-HU	$2.44
EQIP-NOI	$2.03	EQIP-HUNOI	$2.44
EQIP-MRBI	$2.03	EQIP-HUMRBI	$2.44
EQIP-CCPI	$2.03	EQIP-HUCCPI	$2.44